

## Teseo III GNSS evaluation board

Data brief



### Description

Teseo EVB board is a complete standalone evaluation platform for Teseo III GNSS ST solution.

Teseo III embeds the high performance ARM946 microprocessor with dedicated SRAM and several serial communication interfaces, including USB, SPI, I<sup>2</sup>C, UART and CAN.

Performance and configuration can be analyzed using the ST TESEO-SUITE PC Tool<sup>(b)</sup>.

### Features

- ST Teseo III GNSS platform;
- Multiconstellation GNSS: GPS, Galileo, Glonass, Beidou, QZSS are supported;
- USB Power Supply and battery charge;
- Internal battery for standalone usage;
- ON/OFF and Reset buttons available;
- NMEA over:
  - Bluetooth;
  - UART by USB;
  - USB;
- µSD/MMC card reader for easy logging;
- ST 3 axis gyroscope, ST 3 axis accelerometer and ST pressure sensor to enable ST Teseo DRAW<sup>(a)</sup>;
- PPS output;
- Leds:
  - PPS
  - Fix status
  - Antenna sensing
  - Power

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a. ST Teseo Dead Reckoning Automotive Way

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b. ST TESEO-SUITE can freely be downloaded from:  
<http://www.st.com>

# 1 HW and SW resources

## 1.1 ST GNSS solutions

Teseo III ST GNSS family solution is supported.

## 1.2 Power supply

Board powered through USB or battery for standalone usage. Battery charger is supported.

## 1.3 Sensors

Board equipped with sensors over Teseo III-I2C:

- ST Accelerometer sensor: AIS328DQ
- ST Gyroscope sensor: A3G4250D
- ST Pressure sensor: LPS25H

## 1.4 $\mu$ SD/MMC Connector

uSD/MMC is available for data-logging.

## 1.5 NMEA port supported

- Teseo III UART-2 over USB<sup>(c)</sup>
- Teseo III USB peripheral available<sup>(d)</sup>;
- Teseo III UART-0 over ST Bluetooth 3.0 module: SPBT2632C2A.AT2

## 1.6 Kit contents

- Teseo III evaluation board;
- GNSS Antenna
- USB cable
- Cigarette lighter

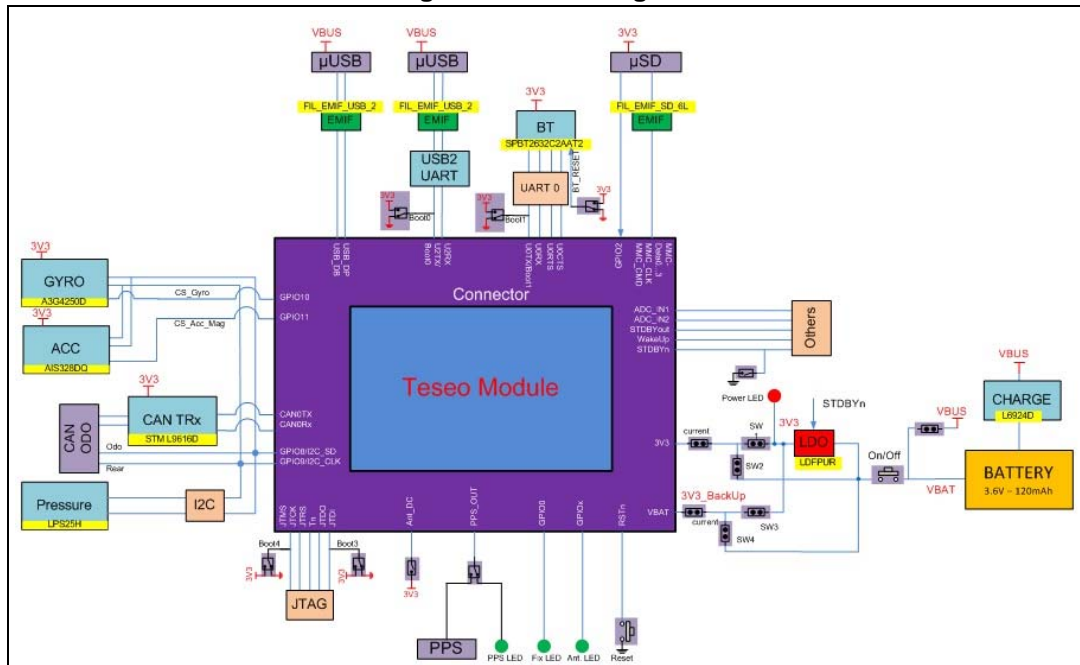
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c. UART/USB bridge driver needed. Driver can be downloaded from: Silabs web site (USBtoUARTBridgeVCPDrivers.aspx)

d. Teseo USB not supported yet

## 2 Block diagram

Figure 1. Block diagram



### 3 Revision history

**Table 1. Document revision history**

Date	Revision	Changes
03-Mar-2017	1	Initial release.

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